ARMY MAP SERVICE DEPARTMENT OF CARTOGRAPHY Cartography Services & Inspections Division

5L30

9 August 1961

MEMCHANDUM FOR FILE

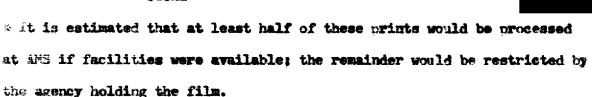
SUBJECT: Photographic Laboratory Requirements

1. The following workload includes servicing fdr both D/Cartography and Photographic Services and Information Division, D/Technical Services. The quantity of work to be processed is shown on a yearly basis. Besides workload, this summary also includes equipment, floor space, and related facilities.

2. Contact Printing

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- a. Quantity produced
 - (1) Prints, D/Cartography Photo Lab,
 - * (2) Prints for AMS (processed outside AMS by agency holding the film)
 - (3) Prints for AMS (film sent from AMS to other agency for contact printing)
 TOTAL



Declass Review by NIMA / DoD

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	b.	Equipment Needed:					
		CP-18 LogEtronic printer with roll head	8				
		Roll paper processor	S				
		Cutting and collating machine	2				
		70 mm to 9 x 9 printing and processor	1				
	0.	Remarks:					
		It should be noted that the requirement for 9 x 18 work wi	11				
show significant increase in the future. This will make it necessary to							
use the CP-16 type printer and a means of automatic processing. The							
increased use of 70 mm film will make it necessary to provide 9 x 9 prints							
from such film. Such a capacity is presently available only at USNPIC.							
3.	Ola	ss Plate Printing and Processing STATINTL	_				
	3.	Quantity processed:					
		(1) Plates made for D/Cartography					
		(2) Plates made for other agencies					
		(3) Total (Annual Production)					
	b.	Equipment Needed:					
		U-3 (Model A) with LogEtronic exposure control	2				
		U-3 (Model B) with LogEtronic Exposure control	2				
		U-3 (Model C) with LogEtronic exposure control	2				
		Distortion-free Multiplex with LogEtronic Control	3				
		Model CP-210 LogEtronic Contact Printers	2				

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Automatic processor for glass plates

c. Remarks:

- (1) Present equipment is adequate, provided it could be modified with LogEtronic exposure control facility. A continuous processor/dryer would be introduced into the system.
- (2) An intimate knowledge of camera and stereopletting instrument characteristics is required in the proparation of photographic plates.

4. Duplication of Film and Processing

a. Quantity processed

(1) For use in D/Cartography

2,000 feet

(2) For use outside of AMS base plant

100,000 feet

(3) Total (Annual production)

102,000 feet

b. Equipment Needed:

HTA-? Centinuous Processor

1

Modified LogEtronic Model 10/70 Strip Printer

1

c. Remarks!

Present production is about 65% of the capacity of equipment.

However, processing equipment is obsolete. A continuous film processor is needed. A modified (higher resolution) printer is needed.

5. Copy Negatives

a. Quantity produced

30,000

b. Equipment needed:

9 x 18 high speed copy camera

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C. Remarks:

Our present copy camera is a "home made job" which is obsolete. It cannot be set to 1:1 scale (all copy work is at 0.95 to 1). It cannot handle the ever-growing demand for 9 x 18 work for copy negatives and for reduction prior to rectification (for photomapping). It has an obsolete light source and is extremely slow. The need for this item is pressing.

6. Rectification

a. Quantity produced

8,000 per year

b. Rquipment Required:

Rectifier, EG I (9 x 18)

Rectifier, Autofocus 1

c. The present equipment satisfies operational requirements.

Quality could be improved with the introduction of an electronic dodgeing system. The copy camera (High Speed) would greatly improve production for rectification.

7. Allied Equipment Required for Modern Photo Lab

Chemical mixing and storage system

Chemical transport system

Chemical replanishment system

Water filtration system

Water temperature control system

Air purification and dust elimination system

Film cleaning equipment

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8. Space Requirements

a. Contact Printing					
(1) LogEtronic Printers	300 sq ft				
(2) Paper processors	500 ed 1.8				
(3) Special printing area	100 eq ft				
(4) Storage (supply)	200 sq ft				
(5) Total	800 aq £6				
b. Glass Plate					
(1) Transforming Printers	500 sq ft				
(2) Multiplex Printers	300 sq ft				
(3) LogEtronic Printers	200 aq ft				
(h) Automatic Processor	100 sq ft				
(5) Inspection	200 sq ft				
(6) Storage (instruments)	400 sq ft				
(7) Storage (supply)	100 eq 11				
(8) Tetal	2,100 sq ft				
c. Film Duplication and Processing					
* (1) Printing	100 sq ft				
(2) Processing Continuous	100 sq ft				
(3) Editing Inspection Storage	300 sq ft				
(h) Total	500 sq ft				
* Stand-by processor will be stored in room with printer.					
d. Copy Negatives	100 so ft				
e. Rectification	700 sq ft				

f. Other Requirements

	(1)	Chemical Mixing Storage, etc.	400 sq ft
	(5)	Print drying, sorting, collating, etc.	1,000 sq ft
	(3)	Office area	200 sq ft
	(4)	Film Storage	100 sq ft
	(5)	Testing, etc.	200 sq ft
	(6)	70 mm to 9 x 9 printer and processor	200 sq ft
	(7)	Lounge (No Smoking in Lab)	300 sq ft
	(8)	Hallway	600 ag ft
	(9)	Total	6,600 sq ft
3•	GRAN	D TOTAL	7,200 sq ft

h. This total space is equivalent to 18 bays (20' \times 20') with over-all dimensions of 60' \times 120'.

9. The above data has been provided primarily through the efforts of STATINTL

Chief, Photo-Control & Photography Eranch

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